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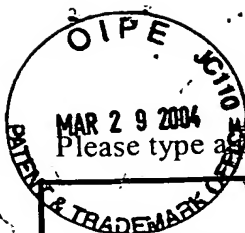
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Customer No. 00270

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Application Number	10/630,072		
	Filing Date	07/30/2003	
	First Named Inventor	Frank Paul et al.	
	Group Art Unit		
	Examiner Name		
Total Number of Pages in this Submission		Attorney Docket Number	NSH2USA

ENCLOSURES (check all that apply)☐ Fee Transmittal Form☐ Fee Attached☐ Amendment/Reply☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☐ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Response to Missing Parts/Incomplete Application☐ Response to Missing Parts under 37 CFR 1.52 or 1.53☐ Assignment Papers (for an Application)☐ Drawing(s)☐ Licensing-related Papers☐ Petition☐ Petition to Convert to a Provisional Application☐ Power of Attorney, Revocation Change of Correspondence Address☐ Terminal Disclaimer☐ Request for Refund☐ After Allowance Communication to Group☐ Appeal Communication to Board of Appeals and Interferences☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☒ Other Enclosure(s) (please identify below):

- Submission of new power of attorney
- Copies of (3) assignments

Remarks:

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual Name	George A. Smith, Jr.
Signature	
Date	03/25/04

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: 03/25/04

Typed or printed name	George A. Smith, Jr.		
Signature		Date	03/25/04

Burden of Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/630072
Applicant: Paul et al.
Filed: 30 July 2003
Docket No.: P32168 (NSH2USA)
Customer No. 00270

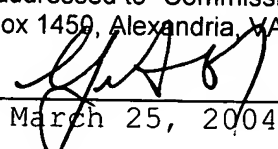
Confirmation No. 9432

SUBMISSION OF
NEW POWER OF ATTORNEY

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING
UNDER 37 C.F.R. §1.8(a)(1)(ii)
(PATENT)

I certify that this paper is being deposited on the date shown below with the United States Postal Service, with sufficient postage, as first class mail and is addressed to "Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450."

Signed 
Date: March 25, 2004

Sir:

We enclose herewith a "POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST AND REVOCATION OF PRIOR POWERS," appointing the undersigned, and others in the firm of Howson and Howson as attorneys in the above-identified patent application.

The undersigned is authorized to act on behalf of the assignee, as shown by the enclosed power of attorney.

The chain of title is shown by the following documents, copies of which are attached, and all of which have either been recorded, or submitted to the Patent and Trademark Office for recordation:

1. Assignments of the parent application, 09/830396 (of which this application is a division) by the inventors, Frank

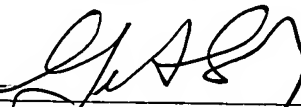
Paul, Karl Pavey, and Richard C. Payne, to SmithKline Beecham Corporation, respectively dated April 30, 2001, April 27, 2001 and May 30, 2001, recorded at Reel 111968, frame 942 on June 29, 2001.

2. Assignment by SmithKline Beecham Corporation to SmithKline Beecham PLC, dated March 10, 2004, and effective July 31, 2003.

3. Assignment by SmithKline Beecham PLC to Akubio Limited, dated August 27, 2003.

Respectfully submitted,
HOWSON & HOWSON

By



George A. Smith, Jr.

Reg. No. 24,442

Howson & Howson

Box 457

Spring House, PA 19477

Telephone: 215 540 9200

Facsimile: 215 540 5818

Attachments



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. Patent Application: 10/630072

Application Filing Date: 30 July 2003

Title: QUARTZ CRYSTAL
MICROBALANCE WITH FEEDBACK
LOOP FOR AUTOMATIC GAIN
CONTROL

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING
UNDER 37 C.F.R. §1.8(a)(1)(ii)
(PATENT)

I certify that this paper is being deposited on the date shown below with the United States Postal Service, with sufficient postage, as first class mail and is addressed to "Commissioner for Patents,, P. O. Box 1450, Alexandria, VA 22313-1450."

Signed

Date

[Signature]
January 25, 2004

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE
INTEREST AND REVOCATION OF PRIOR POWERS

Sir:

The assignee of record of the entire interest of the above-identified patent application is:

Akubio Limited

The assignee's current address is

181 Cambridge Science Park
Milton Road
Cambridge CB4 0GJ
United Kingdom.

as shown by the assignment, a copy of which is attached, and the original of which is being submitted to the Patent and Trademark Office for recordation.

The assignee hereby revokes all powers of attorney previously given in connection with the above-identified patent application, and hereby appoints the following attorneys and agent to transact all business in the U.S. Patent and Trademark Office connected with the above-identified patent application and any patent granted thereon: George A. Smith, Jr., Registration No. 24,442; Stanley B. Kita, Registration No. 24,561; Mary E. Bak,

Registration No. 31,215; Cathy A. Kodroff, Registration No. 33,980; William Bak, Registration No. 37,277; and Tracy U. Palovich, Registration No. 47,840 (Patent Agent), all of the firm of HOWSON AND HOWSON (User Number 00270).

Please direct all telephone calls to George A. Smith, Jr. at telephone number (215) 540-9204, and address all correspondence to HOWSON AND HOWSON, Spring House Corporate Center, Box 457, Spring House, Pennsylvania 19477.

I certify that the assignee named above is the assignee of the entire right, title and interest in the patent application identified above, and that I am authorized to act on behalf of the assignee. To the best of the my knowledge and belief, the assignee named above holds the entire right, title, and interest in the above-identified patent application.

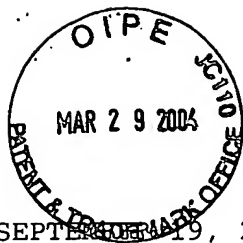
AKUBIO LIMITED

Date: X 5 November 2003

By

Name: X Dr. Matthew Cooper

Title: X CSO



P32168
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 19, 2001

PTAS



101778667A

SMITHKLINE BEECHAM CORPORATION
DARA L. DINNER
CORPORATE INTELLECTUAL PROPERTY-UW2220
P.O. BOX 1539
KING OF PRUSSIA, PA 19406-0939

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/29/2001

REEL/FRAME: 011968/0942
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
PAUL, FRANK

DOC DATE: 04/27/2001

ASSIGNOR:
PABEY, KARL

DOC DATE: 04/30/2001

ASSIGNOR:
PAYNE, RICHARD C.

DOC DATE: 05/30/2001

ASSIGNEE:
SMITHKLINE BEECHAM CORPORATION
ONE FRANKLIN PLAZA 200 NORTH 16TH
STREET
PHILADELPHIA, PENNSYLVANIA 19103

SERIAL NUMBER: 09830396
PATENT NUMBER:

FILING DATE: 06/29/2001
ISSUE DATE:

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SMITHKLINE BEECHAM
2001 SEP 24 A 11:54

011968/0942 PAGE 2

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

PTO/PCT Rec'd 29 JUN 2001

09/830396

AL

ATTORNEY DOCKET NO. P32168

Form PTO-1595

07-17-2001

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

R SHEET

Commissioner of Patents. Ple:

101778667

thereof.

1. Name of conveying party(ies)

Frank Paul
Karl Pavey
Richard C. Payne

Additional names of conveying party(ies) attached?

[] yes [X] no

2. Name and address of receiving party(ies)

SmithKline Beecham Corporation
One Franklin Plaza
200 North 16th Street
Philadelphia, PA 19103
United States of America

Additional name(s) and addresses attached?

[] yes [X] no

3. Description of the interest conveyed:

[X] Assignment, please record and return

[]

Merger

[] Security Agreement

[]

Change of Name

[] Other

Execution date of Assignment: April 27, 30 and May 30, 2001

4. Application number(s) or patent number(s). Additional Sheets attached? _ Yes X No

A. Patent Application No.(s)

09/830,396 FILED 26 APRIL 2001

B.

Patent No.(s)

If this document is being filed together with a new application, the execution date of the application is

5. Name and address of party to whom
correspondence concerning documents should
be mailed:Dara L. Dinner
SmithKline Beecham Corporation
Corporate Intellectual Property - UW2220
P.O. Box 1539
King of Prussia, PA 19406-09396. Total number of applications and
patents involved 1.7. Total Fee (37 C.F.R. 3.41) \$40.008. Please charge this fee to deposit
account No. 19-2570.The Commissioner is hereby authorized to charge any
additional fees under 37 CFR 1.16 or 1.17 which may
be required by this paper, or credit any overpayment, to
our Deposit Account No. 19-2570.

DO NOT USE THIS SPACE

9. Statement and Signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached
copy is a true copy of the original document.*Dara L. Dinner

Name of Person Signing

Signature

29 June 2001

Date

Total number of pages including cover sheet, attachments and document: 4

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07/01/2001 10:00:00 AM 10/10/01

10/10/01 10:10:00 AM

Docket No.: P32168

ASSIGNMENT

WHEREAS I/we, Frank PAUL of GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW, United Kingdom and Karl PAVEY, c/o GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW, United Kingdom and Richard C PAYNE of GlaxoSmithKline, The Frythe, Welwyn, Hertfordshire AL6 9AR, United Kingdom made an invention entitled:

QUARTZ CRYSTAL MICROBALANCE WITH FEEDBACK LOOP
FOR AUTOMATIC GAIN CONTROL

for which on April 27, 30 and May 30, 2001 We
executed an application for Letters Patent of the United States of America;

NOW, THEREFORE, in return for valuable consideration paid to me/us by SmithKline Beecham Corporation (hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged and intending to be legally bound, I/we do hereby assign unto the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the said invention, said executed application, any division, continuation and continuation-in-part of said application and reissue applications, and all Letters Patents of the United States of America to be obtained therefor;

I/we hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

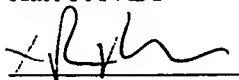
In addition I/we agree to provide ASSIGNEE upon its request with all pertinent facts and documents relating to said invention, and said Letters Patent as may be known and accessible to me/us, and to testify as to the same in any interference or litigation related thereto, and to execute further instruments (including divisional, continuation, continuation-in-part or reissue applications, affidavits or other instruments) required to apply for, obtain, maintain and enforce said application and said Letters Patent which may be necessary; this agreement to be binding upon my/our heirs, executors and administrators.

Inventor 1
Frank PAUL

Date: _____

Inventor 2
Karl PAVEY

Date: _____



Inventor 1
Richard C PAYNE

Date: 4-30-5-01

Docket No.: P32168

ASSIGNMENT

WHEREAS I/We, Frank PAUL of GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW, United Kingdom and Karl PAVEY, c/o GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW, United Kingdom and Richard C PAYNE of GlaxoSmithKline, The Frythe, Welwyn, Hertfordshire AL6 9AR, United Kingdom made an invention entitled:

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I/we hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

In addition I/we agree to provide ASSIGNEE upon its request with all pertinent facts and documents relating to said invention, and said Letters Patent as may be known and accessible to me/us, and to testify as to the same in any interference or litigation related thereto, and to execute further instruments (including divisional, continuation, continuation-in-part or reissue applications, affidavits or other instruments) required to apply for, obtain, maintain and enforce said application and said Letters Patent which may be necessary; this agreement to be binding upon my/our heirs, executors and administrators.

Inventor 1
Frank PAUL



Inventor 2
Karl PAVEY

Inventor 1
Richard C PAYNE

Date: _____

Date: 27th April 2001

Date: _____

Docket No.: P32168

ASSIGNMENT

WHEREAS I/we, Frank PAUL of GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW, United Kingdom and Karl PAVEY, c/o GlaxoSmithKline, New Frontiers Science Park South, Third Avenue, Harlow, Essex CM19 5AW, United Kingdom and Richard C PAYNE of GlaxoSmithKline, The Frythe, Welwyn, Hertfordshire AL6 9AR, United Kingdom made an invention entitled:

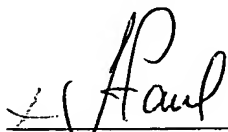
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NOW, THEREFORE, in return for valuable consideration paid to me/us by SmithKline Beecham Corporation (hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged and intending to be legally bound, I/we do hereby assign unto the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the said invention, said executed application, any division, continuation and continuation-in-part of said application and reissue applications, and all Letters Patents of the United States of America to be obtained therefor;

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Inventor 1
Frank PAUL

Date: X 30th April 2001

Inventor 2
Karl PAVEY

Date: _____

Inventor 1
Richard C PAYNE

Date: _____